Herbicide Products Comparison Table 2006 Information compiled by Wisconsin DNR, Forest Health Protection											
PRODUCT NAME & ACTIVE INGREDIENT	FORMULATION	FORESTRY USE	APPLICATION	ENTERS WEED THROUGH	TIMING	AMOUNT	COMMENTS				
Transline Clopyralid 40.9%	Emulsifiable concentrate.	Post-emergent control of broadleaf weeds; Site preparation; Release; Hybrid poplar plantations.	Ground broadcast and spot spray.	Foliage and stems.	When weeds are actively growing.	1/4 - 1 1/3 pints per acre.	Supplemental labeling for forestry application with endangered species restriction: do not apply to wild lupine.				
Vanquish Dicamba 56.8%	Emulsifiable concentrate.	Non-selective forest brush control; Selective tree removal; Forest site preparation.	Aerial or ground, broadcast or direct spray; Cut surface.	Foliage, stem and sapwood. Some uptake by roots.	Full leaf to 2 weeks before first frost.	2 quarts product per acre maximum.	Ground and basal spray OK for multiflora rose.				
Accord ¹ , Foresters', Glypro ¹ , Glyphosate ¹ , Razor ¹ Glyphosate 41.0% to 53.8%	Soluble concentrate.	Post-emergent control of grass and broadleaf weeds, brush and woody plants; Conifer release; Site preparation.	Aerial or ground, broadcast or direct spray; Cut surface.	Foliage or cut surface.	After full leaf expansion; Woody plants late summer; Release of pine and spruce allowed at end of first growing season.	per acre.	Wetland label for products without surfactant. Surfactant required for many uses. Tank mixtures O.K. See label.				
Velpar L^{1, 2} Hexazinone 25%	Soluble concentrate.	Site preparation; Conifer release; Grid and single stem control; Brush control.	Aerial or ground, broadcast or directed spray; Grid or single stem soil application; Injection.	Roots and foliage.	Early spring to early summer. Best when applied within 2 weeks of ¼ - ½ inches expected rainfall.	Site preparation 4 -10 quarts per acre; Release 2 - 8 quarts per acre; Brush control 2 - 4 gallons per acre; Varies with soil texture organic matter and tree species.	tree species. Tank mix				
Arsenal AC ^{1, 2} Imazapyr 53.1%	Soluble concentrate.	Post-emergent control for conifer site preparation and release.	Aerial (helicopter only) or ground, broadcast or directed spray; Cut surface injection.	Roots and foliage.	Foliage after full leaf expansion; Cut surface any time except heavy sap flow.	6 2/3 ounces - 2 pints product diluted in 5 gallon water per acre. See label.	Do not apply with fixed wing aircraft. Tank mixture OK. See label.				
Chopper ² Imazapyr 27.6%	Emulsifiable concentrate.	Site preparation; Brush control; Directed foliar application for conifer release.	Aerial or ground, broadcast or directed spray; Spray or brush onto cut surface.	Foliage, bark, cut surface and roots.	Foliage after full leaf expansion; Cut surface any time except heavy sap flow.	per acre. See label.	Do not apply with fixed wing aircraft.				
Stalker² Imazapyr 27.6%	Emulsifiable concentrate.	Cut stump and frill cut for brush control.	Ground broadcast, spot and injection.	Roots, bark and foliage.	Anytime except heavy sap flow.	8 - 16 ounces in 1 gallon water.	Tank mixtures OK. See label. Nearby roots may accidentally uptake Stalker and cause damage.				

¹Multiple formulations available for this product. Check http://www.cdms.net/manuf/manuf/asp?t=0 for more information.

- Important Information
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²Indicates pesticides currently on a list of chemicals prohibited by the Forest Stewardship Council (FSC). On FSC-certified lands (including State forests and some County Forests) in 2006 these pesticides can only be used if they were used previously. Use on FSC-certified lands after 2006 is subject to change. Use on lands not certified under FSC is permissible according to the label.

Herbicide Products Comparison Table 2006 Continued.											
PRODUCT NAME & ACTIVE INGREDIENT	FORMULATION	FORESTRY USE	APPLICATION	ENTERS WEED THROUGH	TIMING	AMOUNT	COMMENTS				
Linex 4L Linuron 40.6%	Flowable concentrate to be mixed with water.	Pre- and early post- emergent weed control in hybrid poplar plantings.	Overtop application OK before bud break; Directed spray after bud break.	Roots and foliage.	In spring before or shortly after weeds germinate when precipitation is expected.	2 - 4 pints product per acre. Use lower rates on lighter soils.	Aerial application prohibited.				
Lorox DF Linuron 50%	Water dispersible granule.	Pre- and early post- emergent weed control in hybrid poplar plantings.	Overtop application OK before bud break; Directed spray after bud break.	Roots and foliage.	In spring before or shortly after weeds germinate when precipitation is expected.	2 - 4 pounds product per acre. Use lower rates on lighter soils.	Aerial application prohibited.				
Escort XP, Patriot Metsulfuron methyl 60%		Red pine site preparation the season before planting; Brush control.	Aerial (helicopter only) or ground broadcast.	Mainly foliage, but some uptake by roots.		acre depending on weed species and timing.	Transplant following planting season. Tank mixture combinations available. See label.				
Predict Norflurazon 78.6%	Water dispersible granule.	Pre-emergent control of grass and broadleaf weeds in plantations.	Ground broadcast, strip or band spray.	Roots.	Before weed emergence in fall or spring.		Do not use on coarse textured soils. Allow new transplants one growing season before application. Tank mixtures OK. See label.				
Pendulum 3.3 EC ¹ Pendimethalin 37.4%	Emulsifiable concentrate.	Pre-emergent control of annual grasses and broadleaf weeds; Site preparation and maintenance.	Ground broadcast or directed.	Roots.	Site preparation apply at planting or to established trees.		Tank mixture OK. See label. For application at planting wait for closure of planting slit.				
Tordon K RESTRICTED USE Picloram 24.4%	Emulsifiable concentrate.	Site preparation.	Aerial or ground, broadcast or directed spray.	Foliage and stem.	From full leaf expansion through late summer.	acre.	Backflash possible. Wait 8-9 months after use before planting conifers. Tank mixture OK. See label.				
Tordon 101 Mixture RESTRICTED USE Picloram 10.2% 2,4-D amine 39.6%	Soluble concentrate.	Broadleaf weed and brush control in forest planting sites; Site preparation; Wildlife openings.	Aerial or ground, broadcast or directed spray.	Foliage, stem and cut surface.	Foliage application after leaf expansion; Cut surface any season except heavy sap flow.	4 - 8 quarts product per acre.	Backflash possible. Wait 8 - 9 months for conifer transplants. Tank mixture OK. See label.				
Pathway, Tordon RTU Picloram 5.4% 2,4-D amine 20.9%	Ready to use liquid.		Cut surface, injection, frill or girdle.	Sapwood.		product every 2-3 inches	year or more in soil. Do				

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Herbicide Products Comparison Table 2006 Continued. **PRODUCT NAME & ENTERS WEED FORMULATION** FORESTRY USE **APPLICATION** TIMING **AMOUNT** COMMENTS THROUGH **ACTIVE INGREDIENT** Sethoxydim G-Pro Emulsifiable Foliage. 2.25 - 3.75 pints product Poor control/ Post-emergent annual Aerial or ground, Actively growing grass, broadcast, band or spot (Formerly Vantage) concentrate. and perennial grass before seed head per acre. unsatisfactory results appears. Works best Sethoxydim 13 % control. may result if grass or sprav. when weeds are small. trees are stressed (draught, herbicide injury) prior to application. Simazine 4L² Water dispersible liquid. Pre-emergent annual Aerial or ground, Roots. Before weeds emerge or 2 - 4 quarts product Do not apply to Simazine 42.1% broadleaf weed broadcast, band, after weed removal. diluted in at least 25 transplants under 2 and grass control in vears of age. Tank directed or overtop gallons water per acre. shelterbelts. mixture OK. See label. spray. Water dispersible Simazine 90 DF² Pre-emergent annual Aerial or ground, Before weeds emerge or 2.2 - 4.4 pounds product Do not apply to Roots. Simazine 90% broadleaf weed broadcast, band, after weed removal. diluted in at least 25 transplants under 2 granule. and grass control in directed or overtop gallons water per acre. vears of age. Tank shelterbelts. mixture OK. See label. sprav. Oust XP¹, Spyder Water dispersible Pre- and early post-Aerial or ground, Roots and foliage. Site prep apply In late 1 - 8 ounces product per Product requires use of emergent grass and broadcast, band or fall or spring before a sprayer dedicated to Sulfometuron methyl granule. broadleaf control: transplanting: Release only Sulfometuron 75% directed spray. Hardwood and conifer apply in spring after methyl products. Tank site preparation; trees are planted but mixtures OK. See label. Release in plantations. before trees break For release apply after dormancy. rainfall closes planting Aerial (helicopter only) Foliage application 14 - 3 gallons product Tank mixtures OK. See Garlon 3A, Tahoe 3A Soluble concentrate. Brush and broadleaf Foliage and cut surface. Triclopyr amine 44.4% control; Site preparation; or ground, broadcast, during active growth; per acre. label. Overtop spray Conifer release; Single directed spray or cut Cut surface any time applications can kill tree removal. surface. except heavy sap flow. pines. Foliage, bark and cut Garlon 4, Tahoe 4E Emulsifiable Brush and broadleaf Aerial (helicopter only) Foliage application Site preparation 3 - 6 Site preparation 1 - 2 Triclopyr ester 61.6% concentrate. control; Site preparation or ground, broadcast, surface. during active growth. Fo quarts per acre; Conifer month delay before Conifer release: Select directed, basal bark or conifer release when release 1.5 - 3 quarts planting conifers; per acre. Directed spray tree removal. dormant stem spray. weed foliage has Overtop spray reached full size. 4-20 quarts per acre. applications can kill pines. Tank mixtures OK. See label.

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Herbicide Products Comparison Table 2006 Continued. **PRODUCT NAME & ENTERS WEED FORMULATION** FORESTRY USE **APPLICATION** TIMING **AMOUNT** COMMENTS THROUGH **ACTIVE INGREDIENT** Pathfinder II Brush control; Single Basal bark and cut Thoroughly wet lower 12 OK on seasonally dry Ready to use liquid. Hand directed spray. Any time except when Triclopyr ester 13.6% tree removal. stump. snow or water covers - 15" of bark or cut wetlands. base of tree surface but do not allow or brush. runoff. Foliage and bark Spray from full leaf 1 - 2 gallons product Do not apply as a stand Hi-Dep Soluble concentrate. High-volume brush Arial or ground 2,4-D amine 49.5% control: Site preparation: broadcast spray: expansion to dormancy; diluted in 100 gallons release to established injection. conifers as injury may Single tree removal. Injection. Injection May 15 to Oct water per acre. 15. occur. Patron 170 Emulsifiable Brush control; Site Aerial or ground Foliage, stem and cut After full leaf Site preparation 1 - 2 To release red, jack and 2.4-D ester 32.1% concentrate. preparation: Pine broadcast, directed. surface. development: Pine gallons product per acre. white pine and white basal bark, frill or cut 2,4-DP ester 16.1% release; Single tree release after bud set. Pine release 2 - 4 quarts spruce. removal. surface spray. Basal bark anytime. product per acre.

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